

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P317261

Luminaire Tested: **GAN-SA7D-827-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41240 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

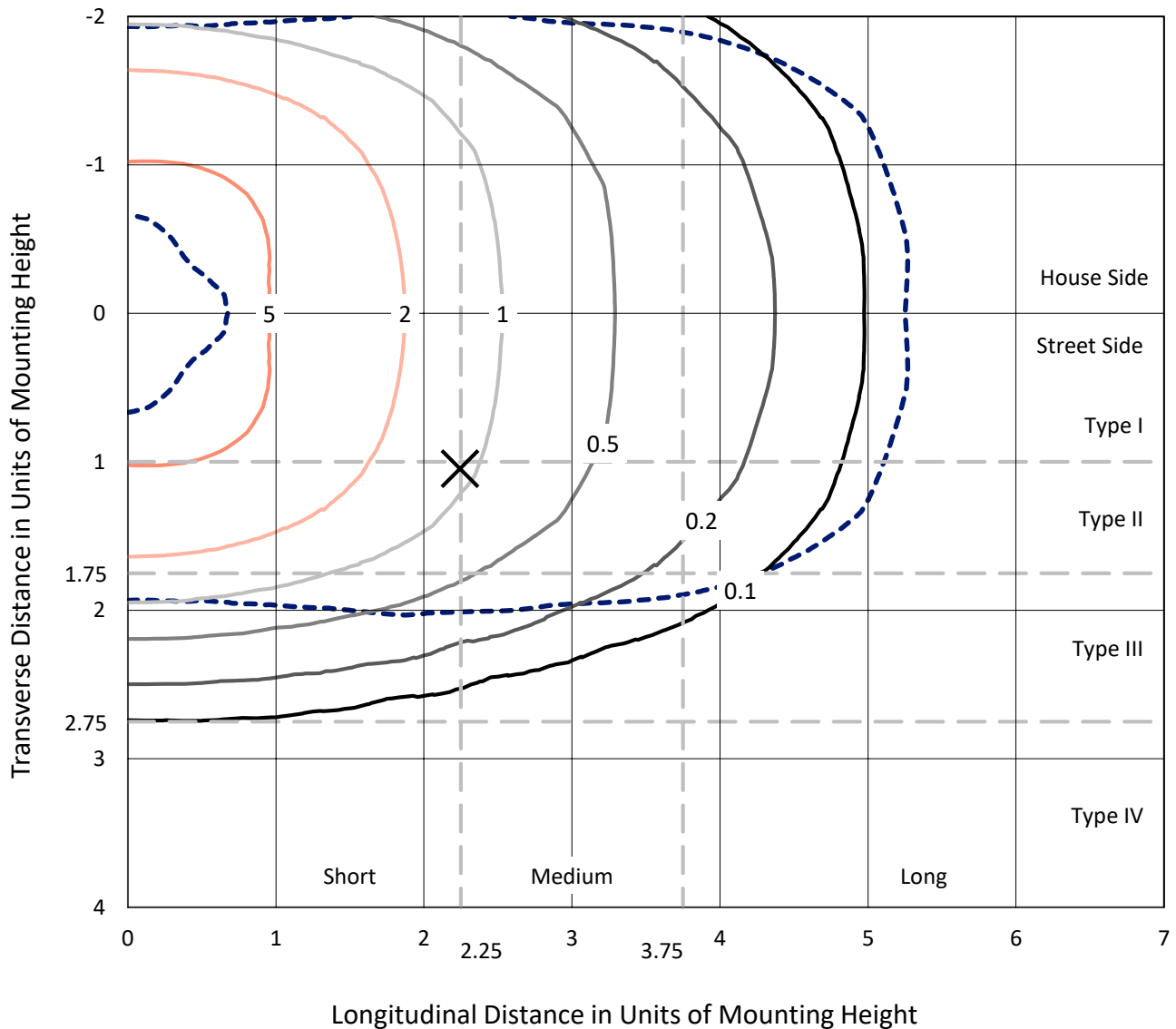
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

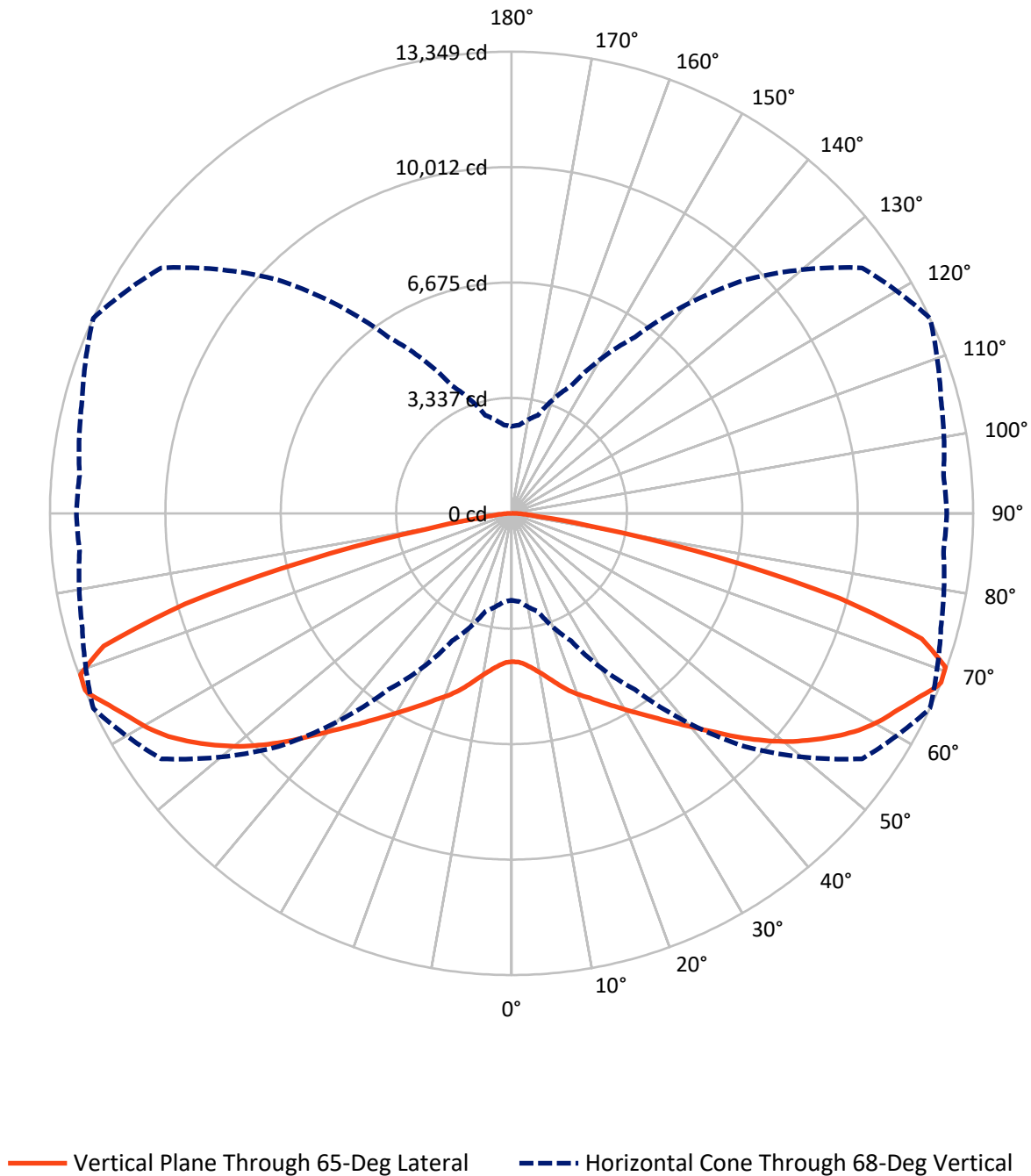
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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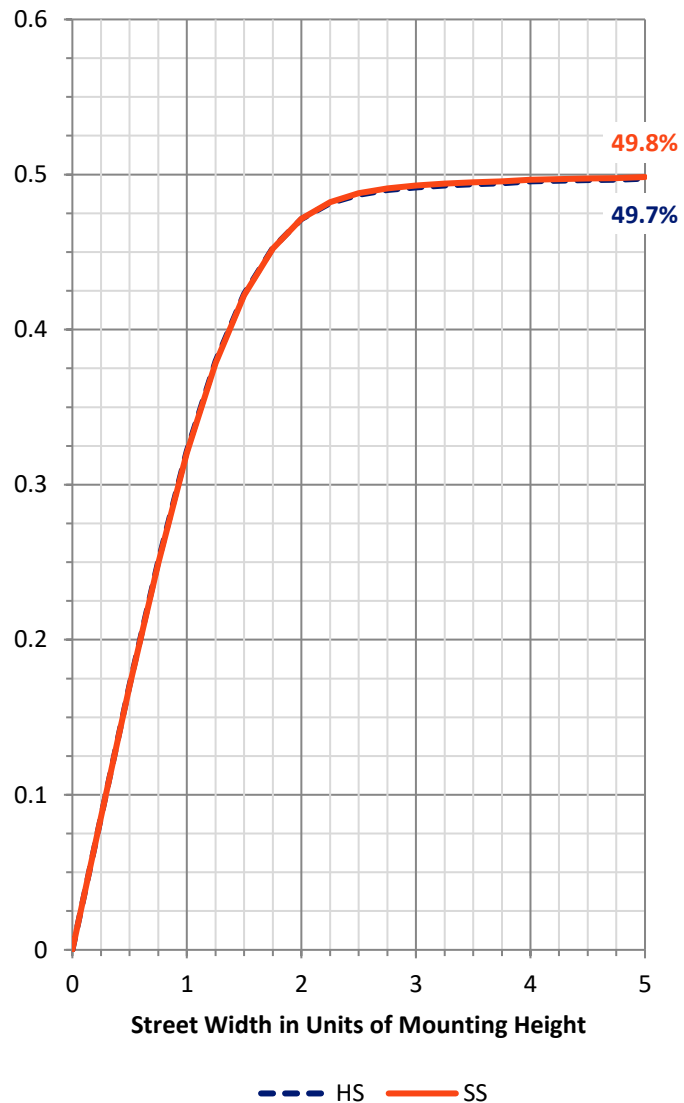
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20620.0	0.0	20620.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20620.0	0.0	20620.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	41240.0	0.0	41240.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.8	1.0
10°-20°	1405.7	3.4
20°-30°	2740.8	6.6
30°-40°	4604.4	11.2
40°-50°	7254.9	17.6
50°-60°	9702.2	23.5
60°-70°	9431.8	22.9
70°-80°	5155.9	12.5
80°-90°	524.4	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	41240.0	100.0
0°-180°	41240.0	100.0

Coefficient of Utilization



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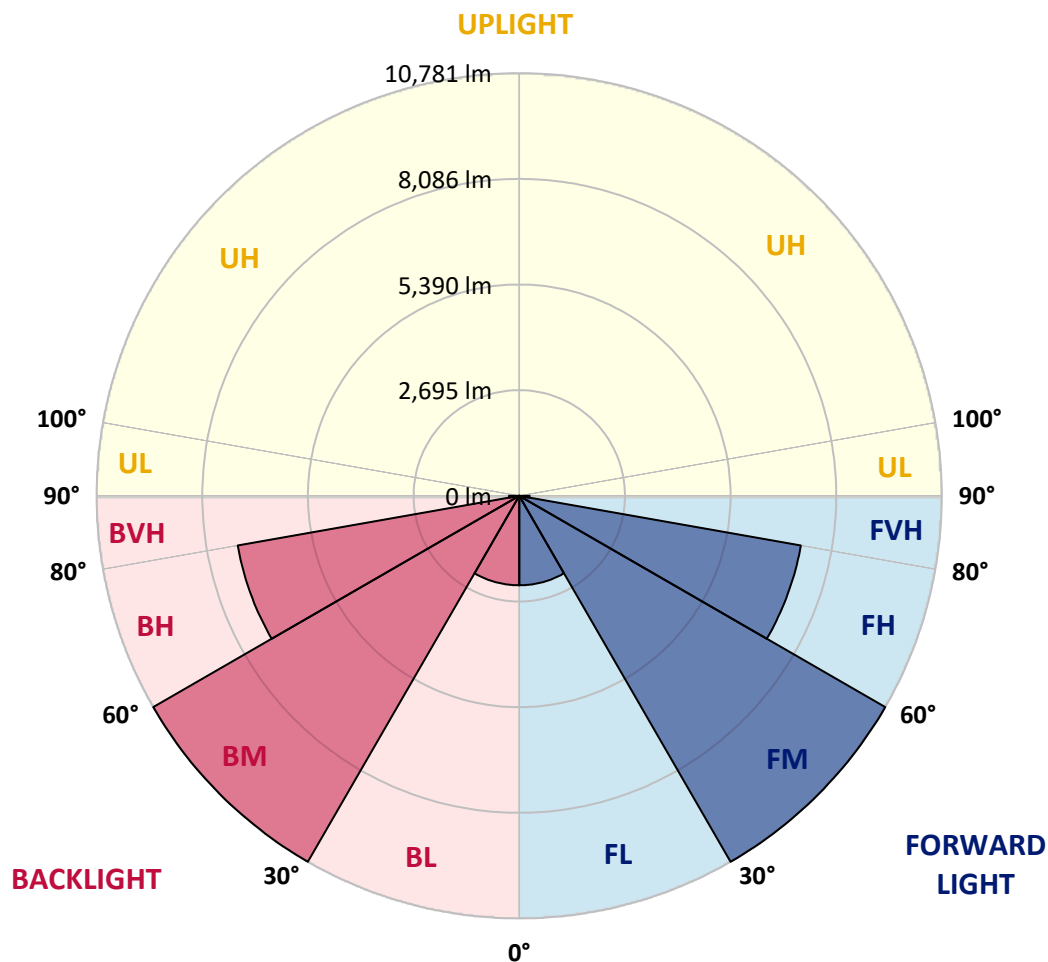
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2283.2	5.5			
FM	(30°-60°)	10780.8	26.1			
FH	(60°-80°)	7293.8	17.7			G3/7500
FVH	(80°-90°)	262.2	0.6			G3/500
BL	(0°-30°)	2283.2	5.5	B3/2500		
BM	(30°-60°)	10780.8	26.1	B5		
BH	(60°-80°)	7293.8	17.7	B5		G5
BVH	(80°-90°)	262.2	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4288.0	4288.0	4288.0	4288.0	4288.0	4288.0	4288.0	4288.0	4288.0	4288.0	4288.0
2.5°	4257.6	4259.0	4265.9	4274.2	4281.1	4299.1	4303.2	4310.1	4312.9	4319.8	4319.8
5°	4220.2	4223.0	4239.6	4261.7	4286.6	4330.9	4362.7	4398.6	4416.6	4435.9	4434.6
7.5°	4216.1	4223.0	4246.5	4282.5	4323.9	4397.2	4463.6	4535.5	4583.9	4628.2	4625.4
10°	4259.0	4270.0	4303.2	4357.1	4419.4	4510.6	4608.8	4705.6	4789.9	4857.7	4860.5
12.5°	4323.9	4337.8	4390.3	4471.9	4565.9	4683.5	4799.6	4908.9	5025.0	5126.0	5134.2
15°	4409.7	4427.7	4506.5	4628.2	4772.0	4911.6	5036.1	5148.1	5282.2	5421.9	5435.7
17.5°	4536.9	4561.8	4665.5	4830.0	5019.5	5173.0	5302.9	5387.3	5499.3	5643.1	5669.4
20°	4730.5	4762.3	4893.6	5090.0	5320.9	5481.3	5580.9	5598.9	5654.2	5782.8	5813.2
22.5°	4982.1	5009.8	5156.4	5390.1	5648.6	5822.9	5875.4	5803.5	5798.0	5901.7	5930.7
25°	5262.8	5287.7	5457.8	5720.5	5998.5	6190.7	6189.3	6049.6	5952.9	6033.1	6063.5
27.5°	5578.1	5616.8	5780.0	6056.6	6353.9	6543.3	6532.2	6316.5	6132.6	6153.4	6179.6
30°	5940.4	5983.3	6142.3	6423.0	6720.3	6905.6	6891.8	6606.9	6330.4	6275.0	6294.4
32.5°	6389.8	6441.0	6591.7	6868.3	7131.0	7298.3	7258.2	6922.2	6568.2	6447.9	6465.9
35°	6930.5	6960.9	7119.9	7392.3	7605.3	7720.0	7635.7	7287.2	6869.6	6724.4	6724.4
37.5°	7478.1	7501.6	7679.9	7944.1	8150.1	8210.9	8046.4	7686.9	7263.7	7057.7	7061.8
40°	8003.5	8067.1	8267.6	8538.6	8741.9	8758.5	8540.0	8143.2	7702.1	7489.1	7514.0
42.5°	8552.5	8614.7	8853.9	9160.9	9340.7	9368.3	9112.5	8654.8	8197.1	8024.3	8051.9
45°	9042.0	9091.8	9368.3	9725.1	9949.1	10021.0	9718.2	9241.1	8732.2	8563.5	8570.4
47.5°	9383.5	9448.5	9752.7	10173.1	10499.4	10610.0	10312.7	9812.2	9259.1	9054.4	9072.4
50°	9693.3	9727.8	10036.2	10495.3	10910.1	11138.3	10883.8	10376.4	9791.4	9574.3	9593.7
52.5°	9866.1	9910.4	10209.0	10687.5	11178.4	11546.2	11391.3	10883.8	10305.8	10094.3	10117.8
55°	9745.8	9779.0	10137.1	10730.3	11344.3	11797.8	11821.4	11380.2	10810.5	10625.3	10691.6
57.5°	9198.2	9239.7	9676.7	10453.8	11365.0	11967.9	12144.9	11840.7	11282.1	11131.3	11170.1
60°	8342.3	8368.6	8834.6	9708.5	10961.3	12038.5	12351.0	12216.8	11743.9	11593.2	11645.7
62.5°	6817.1	6855.8	7413.1	8584.3	10108.1	11829.7	12550.1	12528.0	12174.0	12035.7	12082.7
65°	4660.0	4727.7	5344.4	6825.4	8793.1	11190.8	12731.2	12890.2	12554.2	12380.0	12442.2
67.5°	2813.9	2863.7	3310.4	4506.5	6728.6	9902.1	12544.5	13302.3	12822.5	12541.8	12592.9
68°	2515.3	2560.9	2934.3	4066.7	6223.9	9538.4	12374.5	13349.3	12851.5	12539.0	12584.6
70°	1519.7	1550.1	1800.4	2513.9	4149.7	7566.6	11214.3	13310.6	13036.8	12577.7	12604.0
72.5°	990.1	999.7	1041.2	1290.1	2119.8	4231.3	8417.0	12403.5	13314.8	12803.1	12799.0
75°	822.8	817.2	821.4	850.4	1045.4	1855.7	4918.5	9798.4	12692.5	12447.8	12360.6
77.5°	695.5	691.4	690.0	691.4	699.7	896.0	2135.0	6103.6	9712.6	11011.0	11088.5
80°	562.8	557.3	575.2	566.9	542.0	557.3	894.7	2538.8	4578.4	4925.4	4615.7
82.5°	409.3	388.6	466.0	443.9	423.1	392.7	493.7	820.0	1092.4	749.5	526.8
85°	315.3	293.1	354.0	340.2	290.4	200.5	293.1	401.0	442.5	253.0	199.1
87.5°	128.6	135.5	255.8	201.9	170.1	96.8	120.3	160.4	215.7	107.9	83.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)